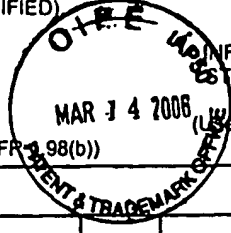


SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(37 CFR 1.98(b))

(Use several sheets if necessary)

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JS	A.A	5	7	9	6	5	7	3	8/18/1998	Kotecki et al.	361	321.5	5/29/1997
	A.B	6	2	5	0	9	8	4	6/26/2001	Jin et al.	445	51	1/25/1999
	A.C	6	4	2	3	5	8	3	7/23/2002	Avouris et al.	438	132	1/3/2001
	A.D	6	5	1	5	3	2	5	2/4/2003	Farnworth et al.	257	296	3/6/2002
	A.E	6	8	5	8	8	9	1	2/22/2005	Farnworth et al.	257	296	12/9/2002
JS	A.F	6	8	9	1	2	2	7	5/10/2005	Appenzeller et al.	257	346	
	A.G												
	A.H												
	A.I												
	A.J												
	A.K												

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
JS	A.L	WO 2004/O40668	3/14/2004	PCT	H01L 51/20		Abstract Only
	A.M	WO 2004/O40616	3/13/2004	PCT	H01L		Abstract Only
	A.N	WO 2004/105140	12/2/2004	PCT	H01L 29/786		Abstract Only
	A.O	EP 1420414	April 6, 2005	EP	G11C 13/O2	H01L 51/30	N/A
JS	A.P	EP 1 361 608	11/12/2003	EP	H01L 21/768	H01L 23/532	N/A
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	A.R	Z.F.Ren, "Large Arrays of Well-Aligned Carbon Nanotubes", Proceedings of 13th International Winter School on Electronic Properties of Novel Materials, Page 263-267, Feb. 27 - Mar. 6, 1999, Kirchberg / Tirol, Austria
JS	A.S	Choi et al., United States Published Application No. 2002/O001905 A1, Publication Date: 1/3/2002
JS	A.T	Furukawa et al., United States Patent Application Publication No. US 2005/O179029, Publication Date: August 18, 2005

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	B.A						
	B.B						
	B.C						
	B.D						
	B.E						
	B.F						
	B.G						
	B.H						
	B.I						
	B.J						
	B.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	B.L						
	B.M						
	B.N						
	B.O						
	B.P						
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	B.R	<u>Y.Zhao, et al, "Film growth of pillars of multi-walled carbon nanotubes", J.Phys.: Condens. Matter 15 (2003) L565-L569</u>
JS	B.S	<u>Zhang, et al, "Electric-field-directed growth of aligned single-walled carbon nanotubes", Applied Physics Letters, Volume 79, Number 19, 5 November 2001</u>
JS	B.T	<u>http://neep.nasa.gov/index_nasa.cfm/769/#synthesis, "Synthesis of CNT's"</u>

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	C.A						
	C.B						
	C.C						
	C.D						
	C.E						
	C.F						
	C.G						
	C.H						
	C.I						
	C.J						
	C.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	C.L						
	C.M						
	C.N						
	C.O						
	C.P						
	C.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	C.R	C-H. Kiang, "Growth of Larger-Diameter Single-Walled Carbon Nanotubes," J.Phys. Chem. A 2000, 104, 2454-2456
JS	C.S	E.Ploenjes, et al, "Single-Walled Carbon Nanotube Synthesis in CO Laser Pumped Monoxide Plasma". Oct 10, 2001
JS	C.T	Y.Mo, et al, "The growth mechanism of carbon nanotubes from thermal cracking of acetylene over nickel catalyst supported on alumina." 2001 Elsevier Science B.V

EXAMINER
/Jarrett Stark/ (02/05/2007)DATE CONSIDERED
02/05/2007EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	D.A						
	D.B						
	D.C						
	D.D						
	D.E						
	D.F						
	D.G						
	D.H						
	D.I						
	D.J						
	D.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	D.L						
	D.M						
	D.N						
	D.O						
	D.P						
	D.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	D.R	M.Jung, et al, "Growth of carbon nanotubes by chemical vapor deposition," 2001 Elsevier Science B.V.
JS	D.S	H.W.Zhu, et al, "Direct Synthesis of Long Single-Walled Carbon Nanotube Strands," 3 May 2002, Vol 296, Science
JS	D.T	H.Cui, et al, "Growth behavior of carbon nanotubes on multilayered metal catalyst film on chemical vapor deposition." Chemical Physics Letters 374 (2003) 222-228

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	E.A.						
	E.B.						
	E.C.						
	E.D.						
	E.E.						
	E.F.						
	E.G.						
	E.H.						
	E.I.						
	E.J.						
	E.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	E.L.						
	E.M.						
	E.N.						
	E.O.						
	E.P.						
	E.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	E.R	J.Li, et al, "Highly-ordered carbon nanotube arrays for electronics applications". Applied Physics Letters, Vol 75, Number 3, 19 July 1999
JS	E.S	Furukawa et al., United States Patent Application No. US2005/O130341, Publication Date: June 16, 2005
JS	E.T	Roesner et al., United States Published Application No. 2003/O132461 A1, Publication Date: 7/17/2003

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	F.A						
	F.B						
	F.C						
	F.D						
	F.E						
	F.F						
	F.G						
	F.H						
	F.I						
	F.J						
	F.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	F.L						
	F.M						
	F.N						
	F.O						
	F.P						
	F.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	F.R	Phillip G. Collins, et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown," Science, Vol. 292, pp.706-709, 27 April 2001
JS	F.S	V. Derycke, et al., "Carbon Nanotube Inter- and Intra molecular Logic Gates," Nano Letters, xxxx Vol.0, No 0 A-D (Received August 16, 2001)
JS	F.T	Phillip G. Collins, et al., "Nanotubes for Electronics," Scientific American, pp. 62-69, December 2000

EXAMINER
/Jarrett Stark/ (02/05/2007)DATE CONSIDERED
02/05/2007EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	G.A.						
	G.B.						
	G.C.						
	G.D.						
	G.E.						
	G.F.						
	G.G.						
	G.H.						
	G.I.						
	G.J.						
	G.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	G.L.						
	G.M.						
	G.N.						
	G.O.						
	G.P.						
	G.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	G.R	S.J. Wind et al., S.J. Wind, et al., "Vertical Scaling of Carbon Nanotube Field-Effect Transistors Using Top Gate Electrodes," Applied Physics Letters, Vol. 80, Number 20, 20 May 2002, pp. 3817-3819
JS	G.S	Z.F. Ren, "Growth, Characterization, and Potential Applications of Periodic Carbon Nanotube Arrays", Dept of Physics, Boston College... Updated, 2001
JS	G.T	Jun Li, et al, "Bottom-up approach for carbon nanotube interconnects", NASA Ames Research Center, Moffett Field, CA. Rec'd 5. December 2002, accepted 31 January 2003

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	H.A						
	H.B						
	H.C						
	H.D						
	H.E						
	H.F						
	H.G						
	H.H						
	H.I						
	H.J						
	H.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	H.L						
	H.M						
	H.N						
	H.O						
	H.P						
	H.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	H.R	<u>Anyuan Cao, et al, "Grapevine-like growth of single walled carbon nanotubes among vertically aligned multiwalled nanotube Arrays", Applied Physics Letters, Volume 79, Number 9, 27 August 2001</u>
JS	H.S	<u>Battelle No 12132, "Carbon Nanotube Arrays: Synthesis of Dense Arrays of Well-Aligned Carbon Nanotubes Completely Filled with Titanium Carbide on Titanium Substrates"</u>
JS	H.T	<u>Aileen Chang, et al, "Integration of Nanotubes into Devices", National Nanofabrication Users Network, page 58, Stanford Nanofabrication Facility</u>

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	I.A						
	I.B						
	I.C						
	I.D						
	I.E						
	I.F						
	I.G						
	I.H						
	I.I						
	I.J						
	I.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	I.L						
	I.M						
	I.N						
	I.O						
	I.P						
	I.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	I.R	Z.Huang, Z.F. Ren, "Growth of highly oriented carbon nanotubes by plasma-enhanced hot filament chemical vapor deposition." <u>Applied Physics Letters</u> , Vol 73, Number 26, 28 December 1998
JS	I.S	G.S. Duesberg et al., <u>Large-Scale Integration of Carbon Nanotubes Into Silicon Based Microelectronics</u> , Proceedings of the SPIE, Bellingham, VA, Vol. 5118, May 21, 2003
JS	I.T	Furukawa et al., <u>United States Patent Application Publication No. US 2005/0167655</u> , Publication Date: August 4, 2005

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/319		SERIAL NO. 10/711,764	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Toshiharu Furukawa et al.			
				FILING DATE October 4, 2004		GROUP 2823	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J.A							
J.B							
J.C							
J.D							
J.E							
J.F							
J.G							
J.H							
J.I							
J.J							
J.K							
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
J.L							
J.M							
J.N							
J.O							
J.P							
J.Q							
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
JS	J.R	<u>Z.F. Ren, et al, "Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass", Science, Vol 282, 6 November 1998, 1105-1107</u>					
JS	J.S	<u>Won Bong Choi, et al, "Ultrahigh density nanotransistors by using selectively grown vertical carbon nanotubes", Applied Physics Letters, Volume 79, Number 22, 26 November 2001</u>					
JS	J.T	<u>Bo Zheng, et al, "Efficient CVD Growth of Single-Walled Carbon Nanotubes on Surfaces Using Carbon Monoxide Precursor", Nano Letters, xxxx Vol.0, No 0 A-D. American Chemical Society revised June 26, 2002</u>					
EXAMINER /Jarrett Stark/ (02/05/2007)				DATE CONSIDERED 02/05/2007			
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.							

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	K.A.						
	K.B.						
	K.C.						
	K.D.						
	K.E.						
	K.F.						
	K.G.						
	K.H.						
	K.I.						
	K.J.						
	K.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	K.L.						
	K.M.						
	K.N.						
	K.O.						
	K.P.						
	K.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	K.R.	Gorman, "Nanoscale Networks: Supertong nanotubes can form a grid". Science News Online, May 3, 2003; Vol 163, No 18
JS	K.S.	"Tiny nanotubes set new record", 7 August 2003. Nanotechweb.org
JS	K.T.	"IBM Scientists Develop Carbon Nanotube Transistor Technology," IBM.com News - news report concerning work published in Science, Vol. 292, Issue 5517, April 27, 2001 entitled "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown."

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Toshiharu Furukawa et al.

(Use several sheets if necessary)

FILING DATE
October 4, 2004GROUP
2823

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	L.A.						
	L.B.						
	L.C.						
	L.D.						
	L.E.						
	L.F.						
	L.G.						
	L.H.						
	L.I.						
	L.J.						
	L.K.						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	L.L.						
	L.M.						
	L.N.						
	L.O.						
	L.P.						
	L.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	L.R	Ploenjes et al., <u>Synthesis of single-walled carbon nanotubes in vibrationally non-equilibrium carbon monoxide</u> , Chemical Physics Letters 352 (2002) pp. 342-247
JS	L.S	Furukawa et al., <u>United States Patent Application Publication No. US 2005/O129948</u> , Publication Date: June 16, 2005
JS	L.T	Choi et al., <u>United States Published Patent Application No. US 2003/O230760</u> , Publication Date: 12/18/2003

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	M.A						
	M.B						
	M.C						
	M.D						
	M.E						
	M.F						
	M.G						
	M.H						
	M.I						
	M.J						
	M.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	M.L						
	M.M						
	M.N						
	M.O						
	M.P						
	M.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	M.R	V.N. Popov, <u>Carbon Nanotubes: Properties and Application</u> , Materials Science and Engineering, R. Vol. R43, No. 3, pp. 61-102 (1/15/2004) (Summary only)
JS	M.S	Furukawa et al., <u>United States Patent Application Publication No. US 2005/0167740</u> , Publication Date: August 4, 2005
JS	M.T	Dubin et al., <u>United States Patent Application Publication No. US 2005/0167755</u> , Publication Date: August 4, 2005

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

APPLICANT
Toshiharu Furukawa et al.FILING DATE
October 4, 2004GROUP
2823

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	N.A						
	N.B						
	N.C						
	N.D						
	N.E						
	N.F						
	N.G						
	N.H						
	N.I						
	N.J						
	N.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	N.L						
	N.M						
	N.N						
	N.O						
	N.P						
	N.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	N.R	Farnworth et al., <u>United States Patent Application No. 2003/O168683</u> , Publication Date: 9/11/2003
JS	N.S	Choi et al., <u>United States Patent Application No. 2003/O170930</u> , Publication Date: 9/11/2003
JS	N.T	Appenzeller et al., <u>United States Patent Application No. 2003/O178617</u> , Publication Date: 9/25/2003

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
IBM/319SERIAL NO.
10/711,764INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
Toshiharu Furukawa et al.

(Use several sheets if necessary)

FILING DATE
October 4, 2004GROUP
2823

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	O.A						
	O.B						
	O.C						
	O.D						
	O.E						
	O.F						
	O.G						
	O.H						
	O.I						
	O.J						
	O.K						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	O.L						
	O.M						
	O.N						
	O.O						
	O.P						
	O.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JS	O.R	<u>P.Harris, "Carbon Nanotubes and related structures", Cambridge University Press 1999.</u>
JS	O.S	<u>K.Teo, et al, "Catalytic Synthesis of Carbon Nanotubes and Nanofibers", Encyclopedia of Nanoscience and Nanotechnology, Vol X, pps 1-22, copyright 2003</u>
JS	O.T	

EXAMINER

/Jarrett Stark/ (02/05/2007)

DATE CONSIDERED

02/05/2007

EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered.
Include a copy of this form with next communication to applicant.